

IN THE CLAIMS

Please cancel claims 1-100.

Please add new claims 101-192 as follows:

--101. A method for reproducing digital data from a signal record medium, comprising the steps of:

reading out recording control information from a playback mode control signal area of said signal record medium, said recording control information being operable to control the playback mode of said record medium; and

changing, based on said recording control information, the phase of at least a portion of a color burst signal associated with an analog color video signal generated from said digital data.--

--102. The method according to claim 101, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--

--103. The method according to claim 101, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--

--104. The method according to claim 101, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--

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--105. The method according to claim 101, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--

--106. The method according to claim 101, wherein at least 5.5 cycles of said color burst signal are changed in phase.--

--107. The method according to claim 101, wherein said step of changing includes adding at least two cycles to said color burst signal.--

--108. The method according to claim 101, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--109. The method according to claim 101, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--110. The method according to claim 101, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--

--111. An apparatus for reproducing digital data from a signal recording medium, comprising:

means for reading out recording control information from a playback mode control signal area of said signal recording medium, said recording control information being operable to control the playback mode of said record medium; and

means for changing, based on said recording control information, the phase of at least a portion of a color burst signal associated with an analog color video signal generated from said digital data.--

--112. The apparatus according to claim 111, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--

--113. The apparatus according to claim 111, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--

--114. The apparatus according to claim 111, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--

--115. The apparatus according to claim 111, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--

--116. The apparatus according to claim 111, wherein at least 5.5 cycles of said color burst signal are changed in phase.--

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--117. The apparatus according to claim 111, wherein said step of changing includes adding at least two cycles to said color burst signal.--

--118. The apparatus according to claim 111, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--119. The apparatus according to claim 111, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--120. The apparatus according to claim 111, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--

--121. A method for reproducing a ciphered signal from a signal record medium, comprising the steps of:

reading out recording control information arrayed at a playback mode control signal area of said signal record medium;

deciphering said ciphered signal using at least a portion of said recording control information as key information for reproducing said signal to generate an analog color video signal; and

changing the phase of at least a portion of a color burst signal associated with said deciphered signal using at least a portion of said recording control information as key information.--

--122. The method according to claim 121, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--

--123. The method according to claim 121, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--

--124. The method according to claim 121, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--

--125. The method according to claim 121, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--

--126. The method according to claim 121, wherein at least 5.5 cycles of said color burst signal are changed in phase.--

--127. The method according to claim 121, wherein said step of changing includes adding at least two cycles to said color burst signal.--

--128. The method according to claim 121, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--129. The method according to claim 121, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--130. The method according to claim 121, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--

--131. A signal reproducing apparatus for reproducing a ciphered signal from a signal record medium comprising:

readout means for reading out recording control information arrayed at a playback mode control signal area of said signal record medium, said recording control information being operable to control the playback mode of said record medium;

deciphering means for deciphering said ciphered signal using at least a portion of said recording control information as key information to generate an analog color video signal;
and

changing means for changing the phase of at least a portion of a color burst signal associated with said deciphered signal using at least a portion of said recording control information as key information.--

- 132. The apparatus according to claim 131, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--
- 133. The apparatus according to claim 131, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--
- 134. The apparatus according to claim 131, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--
- 135. The apparatus according to claim 131, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--
- 136. The apparatus according to claim 131, wherein at least 5.5 cycles of said color burst signal are changed in phase.--
- 137. The apparatus according to claim 131, wherein said step of changing includes adding at least two cycles to said color burst signal.--
- 138. The apparatus according to claim 131, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--139. The apparatus according to claim 131, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--140. The apparatus according to claim 131, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--

--141. A signal reproducing apparatus for reproducing a ciphered signal from a signal record medium comprising:

readout means for reading out recording control information arrayed at a playback mode control signal area of said signal record medium, said recording control information being operable to control the playback mode of said record medium;

deciphering means for deciphering said ciphered signal using at least a portion of said recording control information as key information to generate an analog color video signal;
and

arraying means for arraying a signal coded with plural bits at a pre-set position in the analog signal using at least a portion of said recording control information as key information.--

--142. The signal reproducing apparatus as claimed in claim 141, wherein said analog signal is an analog video signal and said pre-set position is a predetermined horizontal period within a vertical blanking period of said analog video signal.--

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--143. A method for receiving and reproducing transmitted digital data, comprising the steps of:

generating transmission control information from the received digital data;

changing, based on said transmission control information, the phase of at least a portion of a color burst signal associated with an analog color video signal generated from said digital data; and

performing a pre-set conversion on said digital data based on said transmission control information.--

--144. The method according to claim 143, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--

--145. The method according to claim 143, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--

--146. The method according to claim 143, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--

--147. The method according to claim 143, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--

--148. The method according to claim 143, wherein at least 5.5 cycles of said color burst signal are changed in phase.--

--149. The method according to claim 143, wherein said step of changing includes adding at least two cycles to said color burst signal.--

--150. The method according to claim 143, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--151. The method according to claim 143, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--152. The method according to claim 143, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--

--153. An apparatus for receiving and reproducing transmitted digital data, comprising:
means for generating transmission control information from the received digital data;

means for changing, based on said transmission control information, the phase of at least a portion of a color burst signal associated with an analog color video signal generated from said digital data; and

means for performing a pre-set conversion on said digital data.--

--154. The apparatus according to claim 153, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--

--155. The apparatus according to claim 153, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--

--156. The apparatus according to claim 153, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--

--157. The apparatus according to claim 153, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--

--158. The apparatus according to claim 153, wherein at least 5.5 cycles of said color burst signal are changed in phase.--

--159. The apparatus according to claim 153, wherein said step of changing includes adding at least two cycles to said color burst signal.--

--160. The apparatus according to claim 153, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--161. The apparatus according to claim 153, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--162. The apparatus according to claim 153, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--

--163. A method for receiving a transmitted ciphered signal and reproducing the received signal, comprising the steps of:

generating transmission control information from said received signal;

deciphering said received signal using at least a portion of said transmission control information as key information to generate an analog color video signal; and

changing the phase of at least a portion of a color burst signal associated with said color video signal using at least a portion of said transmission control information as key information.--

--164. The method according to claim 163, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--

--165. The method according to claim 163, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--

--166. The method according to claim 163, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--

--167. The method according to claim 163, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--

--168. The method according to claim 163, wherein at least 5.5 cycles of said color burst signal are changed in phase.--

--169. The method according to claim 163, wherein said step of changing includes adding at least two cycles to said color burst signal.--

--170. The method according to claim 163, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--171. The method according to claim 163, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--172. The method according to claim 163, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--

--173. An apparatus for receiving and reproducing a transmitted ciphered signal, comprising:

means for recovering transmission control information which has been transmitted together with said ciphered signal;

means for deciphering said ciphered signal using at least a portion of said transmission control information as key information to generate an analog color video signal; and

means for changing the phase of at least a portion of a color burst signal associated with said color video signal using at least a portion of said transmission control information as key information.--

--174. The apparatus according to claim 173, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--

--175. The apparatus according to claim 173, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--

--176. The apparatus according to claim 173, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--

--177. The apparatus according to claim 173, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--

--178. The apparatus according to claim 173, wherein at least 5.5 cycles of said color burst signal are changed in phase.--

--179. The apparatus according to claim 173, wherein said step of changing includes adding at least two cycles to said color burst signal.--

--180. The apparatus according to claim 173, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--181. The apparatus according to claim 173, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--182. The apparatus according to claim 173, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--

--183. A video signal reproducing apparatus for reproducing a digital disc medium having recorded thereon a digital video signal and a recording control code for outputting at least an analog video signal, wherein said recording control code is arrayed in a playback mode control signal area of said disc, comprising:

detection means for detecting the state of the recording control code;

means for generating a recording scrambling signal;

D/A conversion means for converting the digital video signal reproduced from the digital disc medium into an analog video signal;

annexing means for annexing said recording scrambling signal in a pre-set area of a vertical blanking period of the D/A converted analog video signal by changing the phase of at least a portion of a color burst signal associated with said analog video signal; and

outputting means for outputting said analog video signal.--

--184. The apparatus according to claim 183, wherein a first half of said color burst signal is changed and a second half of said color burst signal is unchanged.--

--185. The apparatus according to claim 183, wherein a first half of said color burst signal is reversed in phase relative to a second half of said color burst signal.--

--186. The apparatus according to claim 183, wherein said color burst signal has eleven cycles and at least two cycles of said eleven cycles are changed in phase.--

--187. The apparatus according to claim 183, wherein said color burst signal has eleven cycles and about 5.5 cycles of said eleven cycles are changed in phase.--

--188. The apparatus according to claim 183, wherein at least 5.5 cycles of said color burst signal are changed in phase.--

--189. The apparatus according to claim 183, wherein said step of changing includes adding at least two cycles to said color burst signal.--

--190. The apparatus according to claim 183, wherein said color burst signal has a first portion and a second portion and a phase switching point exists between said first portion and said second portion.--

--191. The apparatus according to claim 183, wherein for every seventeen horizontal lines of said video signal the color burst signal associated with two lines of said seventeen lines is changed in phase.--

--192. The apparatus according to claim 183, wherein for every twenty one horizontal lines of said video signal the color burst signal associated with four lines of said twenty one lines is changed in phase.--
